

Semester I

Code	Subject	No. of Hours				Exam Hours	Maximum Marks		
		L	T	P	C		I	E	T
EMPTE1FT091	Advanced Mathematics	4	1	-	3	3	40	60	100
EMPTE1DT092	Advanced Fluid Mechanics	4	1	-	3	3	40	60	100
EMPTE1DT093	Advanced Thermodynamics	4	1	-	3	3	40	60	100
EMPTE1DE094 (A to C)	Elective – I	4	1	-	3	3	40	60	100
Total		16	4	-	12		160	240	400

Semester II

Code	Subject	No. of Hours				Exam Hours	Maximum Marks		
		L	T	P	C		I	E	T
EMPTE2DT091	Experimental Techniques in Thermal Power Engineering	4	1	-	3	3	40	60	100
EMPTE2DT092	Design of Thermal Power Equipment	4	1	-	3	3	40	60	100
EMPTE2DE093 (A to C)	Elective – II	4	1	-	3	3	40	60	100
EMPTE2DE094 (A to C)	Elective – III	4	1	-	3	3	40	60	100
Total		16	3	-	12		160	240	400

Semester III

Code	Subject	No. of Hours				Exam Hours	Maximum Marks		
		L	T	P	C		I	E	T
EMPTE3DT091	Energy Engineering	4	1	-	3	3	40	60	100
EMPTE3DT092	Advanced Heat Transfer – I	4	1	-	3	3	40	60	100
EMPTE3DE093 (A TO C)	Elective – IV	4	1	-	3	3	40	60	100
EMPTE3DP091	Mechanical Laboratory – I	-	-	6	1	3	40	60	100
Total		12	3	6	10		160	240	400

Semester IV

Code	Subject	No. of Hours				Exam Hours	Maximum Marks		
		L	T	P	C		I	E	T
EMPTE4DT091	Computational Fluid Dynamics	4	1	-	3	3	40	60	100
EMPTE4DT092	Advanced Heat Transfer - II	4	1	-	3	3	40	60	100
EMPTE4DE093 (A TO C)	Elective – V	4	1	-	3	3	40	60	100
EMPTE4DP091	Mechanical Laboratory – II	-	-	6	1	3	40	60	100
Total		12	3	6	10		160	240	400

Semester V

Code	Subject	No. of Hours				Exam Hours	Maximum Marks		
		L	T	P	C		I	E	T
EMPTE5DT091	Simulation of I.C. Engine Processes	4	1	-	3	3	40	60	100
EMPTE5DP091	Project Work Phase-I	-	-	6	5	3	40	60	100
Total		04	1	6	8		80	120	200

Semester VI

Code	Subject	No. of Credits	Maximum Marks		
			I	E	T
EMPTE6DP091	Project Work Phase-II	12	40	60	100
Total		12	40	60	100

L : Lecture periods;

T : Tutorial periods;

P : Practical periods;

I : Internal assessment;

E : External assessment;

T : Total marks

LIST OF ELECTIVE SUBJECTS

Semester I

Elective – I

Code	Subject
EMPTE1DE094A	Finite Element Analysis
EMPTE1DE094B	Cryogenics
EMPTE1DE094C	Energy Conservation And Management

Semester II

Elective – II

Code	Subject
EMPTE2DE093A	Gas turbines & Jet propulsion
EMPTE2DE093B	Design of Heat transfer Equipment
EMPTE2DE093C	Alternative Fuels And Their Applications

Elective – III

Code	Subject
EMPTE2DE094A	Refrigeration & Air Conditioning
EMPTE2DE094B	Industrial Pollution Control
EMPTE2DE094C	Co-Generation And Its Applications

Semester III

Elective – IV

Code	Subject
EMPTE3DE093A	Nuclear Power Plant Engineering
EMPTE3DE093B	Modelling And Simulation Of Energy Systems
EMPTE3DE093C	Energy Auditing and Conservation

Semester IV

Elective – V

Code	Subject
EMPTE4DE093A	Utilization Of Solar Energy
EMPTE4DE093B	Speciality Engines
EMPTE4DE093C	Bio-Energy And Conversion Systems